MA 24 F(89)-1

CURRENT INDUSTRIAL REPORTS

Hardwood Plywood

1989

U.S. Department of Commerce
BUREAU OF THE CENSUS

MA24F(89)-1
Issued November 1990

SUMMARY OF FINDINGS

Total value of shipments including interplant transfers of hardwood plywood were 825.5 million dollars in 1989, a 2.9 percent increase from the 802.2 million dollars reported in 1988. Total shipments of hardwood plywood were 1,116.5 million square feet surface measure in 1989, an increase of less than 1 percent from the 1,111.2 million square feet surface measure figure reported in 1988. Shipments of board core hardwood plywood were 231.2 million square feet surface measure in 1989, a 3.9 percent decrease from the 240.3 million square feet surface measure figure reported for 1988.

Total shipments of prefinished hardwood plywood for 1989 were 1,162.8 million square feet surface measure, a decrease of 3.5 percent from the 1,203.8 million square feet surface measure figure reported for 1988.

Production of softwood plywood in 1989 totaled 20,918.8 million square feet, 3/8-inch basis, a decrease of 6.3 percent from the 22 232.9 million square feet surface measure, 3/8-inch basis, figure reported in 1988.

Total value of shipments of softwood for 1989 were 3,734.0 million dollars, a 6.3 percent increase from the 3,512.9 million dollars figure reported for 1988. Total shipments of softwood plywood for 1989 were 20,903.6 million square feet surfaces measure, 3/8-inch basis, a decrease of 6.2 percent from the 22,191.0 million square feet surface measure, 3/8-inch basis, figure reported in 1988.

A description of the survey methodology and related information appears on page 6.

Table 1. QUANTITY AND VALUE OF SHIPMENTS OF PLYWOOD AND OTHER PANEL PRODUCTS: 1982 to 1989

(Quantity in million of square feet; value in million of dollars)

Product description		1989	1988	1987	1986	1985	1984	1983	1982
Hardwood plywood[1]	Quantity	2,110.0	2,113.2	2,584.8	2,205.2	2,176.1	2,352.3	2,452.3	2,220.0
	Value	1,043.8	1,033.6	1,108.4	938.0	928.6	964.6	860.1	776.1
Hardwood plywood shipped from plant in which produced	Quantity	1,116.5	1,111.2	1,113.4	983.3	942.9	1,085.5	1,127.5	1,032.9
	Value	825.5	802.2	791.2	690.1	687.2	728.4	628.8	544.4
Shipped as unfinished	Quantity	947.2	909.4	870.3	727.3	750.9	797.8	777.2	642.0
	Value	748.4	712.6	677.6	582.6	605.6	627.6	511.4	422.9
Shipped as prefinished	Quantity	169.3	201.8	243.1	256.0	192.0	287.6	350.3	390.9
	Value	77.1	89.6	113.6	107.5	81.6	100.8	117.4	121.5
Prefinished hardwood plywood made from purchased plywood[2]	Quantity	993.5	1,002.0	1,471.4	1,221.9	1,233.2	1,266.8	1,324.8	1,187.1
	Value	218.3	231.4	317.2	247.9	241.4	236.2	231.3	231.7
Softwood plywood[3]	Quantity	20,903.6	22,191.0	22,164.6	20,354.8	19,363.8	18,828.3	18,267.4	15,180.9
	Value	3,734.0	3,512.9	3,622.5	3,330.9	3,128.8	3,064.6	3,001.1	2,279.5
Rough	Quantity	14,908.6	15,648.4	15,551.2	13,889.6	12,970.0	12,948.4	12,711.3	10,412.2
	Value	2,376.0	2,218.3	2,295.0	2,069.1	1,869.5	1,905.8	1,906.0	1,378.3
Sanded	Quantity	3,589.1	3,867.5	3,929.3	3,869.2	3,861.3	3,668.9	3,514.5	3,117.0
	Value	787.3	737.7	759.3	713.8	721.2	672.4	649.4	547.9
Specialties	Quantity	2,405.9	2,675.1	2,684.1	2,596.0	2,532.5	2,211.0	2,041.6	1,651.7
	Value	570.7	556.9	568.2	548.0	538.0	486.5	445.8	353.3
Waferboard and oriented strandboard	Quantity	5,091.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	Value	741.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Detail may not add to total due to independent rounding.

(NA) Not available.

[1] Quantity for Hardwood plywood is based on surface measure.
[2] Includes hardwood plywood owned by others to avoid disclosing figures for individual companies.
[3] Quantity for Softwood plywood is based on 3/8" basis.

READEX FICHE best copy available

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Gisela B. Hoffman, (301) 763-7807.

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

C 3. 158:

Table 2. PRODUCTION, QUANTITY AND VALUE OF SHIPMENTS OF PLYWOOD AND WAFERBOARD/ORIENTED STRANDBOARD: 1989 AND 1988

(Quantity in million of square feet; value in million of dollars)

Product code	Product description	1989			1988		
		Production	Quantity	Value	Production	Quantity	Value
24351 --	Hardwood plywood[1]	1,212.7	1,116.5	825.5	1,217.1	1,111.2	802.2
	Veneer core:						
24351 10	Technical and Type I, waterproof	(D)	(D)	(D)	(D)	(D)	(NA)
24351 20	Type II, moisture resistant, total	731.1	730.9	505.7	746.7	730.8	(NA)
24351 02	Birch	196.7	196.1	128.5	198.2	198.5	(NA)
24351 21	Gum	60.4	59.2	37.6	r69.9	r67.8	(NA)
24351 22	Maple	56.2	56.8	46.9	r51.1	r51.0	(NA)
24351 23	Oak	248.7	253.1	179.4	249.6	241.6	(NA)
24351 24	Walnut	10.4	9.9	10.7	14.3	13.9	(NA)
24351 25	Other domestic woods	71.3	70.7	53.8	81.2	77.9	(NA)
24351 26	Mahogany	8.5	8.4	6.8	7.2	6.5	(NA)
24351 27	Philippine woods, all types	78.9	76.7	42.0	75.2	73.6	(NA)
24351 29	Other imported woods						
24351 30	Type III, dry board	75.9	75.8	62.5	(D)	(D)	(NA)
24351 50	Board core[2]	327.5	231.2	225.1	330.1	240.3	(NA)
24351 05	Birch	55.9	53.0	34.7	46.0	43.7	(NA)
24351 52	Maple	13.6	10.8	12.7	r9.2	r6.9	(NA)
24351 53	Oak	85.0	73.1	73.4	87.4	76.9	(NA)
24351 54	Walnut	28.5	19.1	41.9	27.4	19.5	(NA)
24351 55	Other domestic woods, including gum	123.5	58.2	45.8	139.0	76.0	(NA)
24351 56	Mahogany	11.7	7.6	9.8	r11.5	7.4	(NA)
24351 57	Philippine woods, all types						
24351 59	Other imported woods	9.3	9.4	6.8	9.6	9.9	(NA)
24351 60	Container and packaging type	(D)	(D)	(D)	(D)	(D)	(NA)
	Softwood plywood[3]	20,918.8	20,903.6	3,734.0	22,232.9	22,191.0	3,512.9
24365 --	Rough (including touch sanded)	14,873.3	14,908.6	2,376.0	15,647.9	15,648.4	2,218.3
	Interior	14,253.5	14,292.8	2,262.6	15,039.0	15,058.7	2,122.7
24365 01	C-D exterior glue	10,044.6	10,087.1	1,578.9	10,651.2	10,666.8	1,480.2
24365 03	Structural I and II (including C-D)	288.0	287.6	48.4	r280.0	r279.6	r42.3
24365 05	Underlayment exterior glue	2,148.7	2,130.3	370.1	r2,202.0	r2,201.9	r342.1
24365 07	C-D plugged exterior glue	233.1	234.0	40.3	143.4	144.1	23.6
24365 09	2-4-1 exterior glue	123.1	122.8	18.1	r73.3	r74.1	r10.2
24365 11	Other (including C-D, C-D plugged, underlayment, shop)	1,416.0	1,431.0	206.8	1,689.1	1,692.2	224.3
	Exterior	619.8	615.8	113.4	r608.9	r589.7	r95.6
24365 21	C-C	362.6	358.9	62.7	r353.1	r343.2	r53.1
24365 23	C-D plugged	257.2	256.9	50.7	255.8	246.5	42.5
24366 --	Sanded	3,602.0	3,589.1	787.3	3,903.1	3,867.5	737.7
	Interior	348.2	352.5	74.7	408.3	415.7	78.9
24366 01	A-B	87.9	87.3	21.6	108.7	108.7	23.1
24366 03	A-D	97.3	97.3	20.8	123.5	122.2	23.4
24366 05	Other (including N, R-A, B-B, B-D, shop)	163.0	167.9	32.3	176.1	184.8	32.4
	Exterior	3,253.8	3,236.6	712.6	3,494.8	3,451.8	658.8
24366 11	A-C	1,605.1	1,597.9	366.5	1,822.1	1,787.1	357.7
24366 13	B-B plyform	437.0	438.5	97.6	520.3	519.2	97.7
24366 15	B-C	964.8	952.6	185.6	879.9	868.4	146.4
24366 17	Other (including N, A-A marine, A-A, A-B marine, A-B marine, A-B, B-B)	246.9	247.6	62.9	272.5	277.1	57.0
24367 --	Specialties	2,443.5	2,405.9	570.7	2,681.9	2,675.1	556.9
24367 01	Interior	(D)	(D)	(D)	(D)	(D)	(D)
	Sidings	1,803.1	1,778.3	417.7	1,998.0	1,993.1	407.3
24367 11	303 Group I	1,178.6	1,153.9	267.2	1,147.9	1,143.2	225.7
24367 13	All other	624.5	624.4	150.5	850.1	849.9	181.6
24367 21	Overlays	240.7	239.9	82.3	217.4	216.7	73.7
24367 31	Other specialties	(D)	(D)	(D)	(D)	(D)	(D)
24932 --	Waferboard and oriented strandboard[3]	5,108.4	5,091.6	741.1	(NA)	(NA)	(NA)

(D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. rRevised by 5 percent or more from previously published figures.

[1] Quantity based on surface measure.
[2] Board core includes lumber core, particleboard core, hardboard core, etc.
[3] Quantity based on 3/8" basis.

Table 3. SHIPMENTS OF PREFINISHED HARDWOOD PLYWOOD, INCLUDING RECEIPTS FOR PREFINISHING: 1989 AND 1988

(Quantity in million of square feet surface measure; value in million of dollars)

Product code	Product description	1989		1988	
		Quantity	Value	Quantity	Value
	Prefinished hardwood plywood, including receipts for prefinishing	1,162.8	295.4	1,203.8	321.0
	Prefinished hardwood plywood:				
24351 70	Produced from plywood made at the same establishment	169.3	77.1	201.8	89.6
	Produced from purchased hardwood plywood:				
24352 10	Domestic	(D)	(D)	(D)	(D)
24352 20	Imported	938.9	211.6	945.5	225.6
93024 35	Receipts for prefinishing hardwood plywood owned by others	(D)	(D)	(D)	(D)

(D) Data withheld to avoid disclosing figures for individual companies.

Table 4. SOFTWOOD PLYWOOD PRODUCTION, BY TYPE AND SPECIES

(Million square feet, 3/8" basis)

Product code	Product description	Total production		Douglas fir		Pines		Other species	
		1989	1988	1989	1988	1989	1988	1989	1988
	Softwood plywood	20,918.8	22,232.9	7,537.4	8,486.9	11,913.8	12,042.3	1,467.5	r1,703.6
24365 --	Rough	14,873.3	15,647.9	4,561.0	5,004.7	9,248.1	9,473.7	1,064.1	r1,169.3
24366 --	Sanded	3,602.0	3,903.1	1,941.7	2,317.9	1,428.1	1,307.9	232.3	277.3
24367 --	Specialties	2,443.5	2,681.9	1,034.7	1,164.3	1,237.6	1,260.7	171.1	257.0

Note: Detail may not add to total due to independent rounding.

rRevised by 5 percent or more from previously published figures.

Table 5. CONSUMPTION OF LOGS AND PURCHASED VENEERS USED TO MANUFACTURE HARDWOOD PLYWOOD: 1989 AND 1988

Material code	Material description	Unit of Measure	1989			1988		
			Total	Domestic	Imported	Total	Domestic	Imported
	Logs consumed	mm lin. ft. log scale	193.3	193.3	-	185.8	185.8	-
241104	Hardwood logs	do	110.1	110.1	-	104.3	104.3	-
241106	Softwood logs	do	83.2	83.2	-	r81.5	r81.5	-
	Veneer consumed[1]	mm sq. ft. surface measure	3,036.8	2,476.5	560.3	3,089.9	2,513.7	576.2
243253	Hardwood veneer	do	2,820.4	2,260.1	560.3	2,864.3	2,288.1	576.2
243255	Softwood veneer	do	216.4	216.4	-	r225.6	r225.6	-

[1]Includes veneers produced at the plywood mill, veneers transferred from other plants of the consuming company, and purchased veneers.

rRevised by 5 percent or more from previously published figures.

Table 6. PRODUCTION, SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF PLYWOOD: 1989 AND 1988

(Quantity in millions of square feet, value in millions of dollars)

Product code	Product description	Manufacturers' shipments		Exports of domestic merchandise[1]		Percent exports to manufacturers' shipments		Imports for consumption[2]		Apparent consumption[4]		Percent imports to apparent consumption	
		Quantity	Value	Quantity	Value at port	Quantity	Value	Quantity	Value[3]	Quantity	Value	Quantity	Value
	1989												
24351 --	Hardwood plywood[5]	1,116.5	825.5	(X)	11.6	(X)	1.4	(X)	143.8	(X)	957.7	(X)	15.0
24365 --	Softwood plywood[6]	20,903.6	3,734.0	(X)	267.9	(X)	7.2	(X)	19.9	(X)	3,486.0	(X)	0.6
24366 --													
24367 --													
24932 --	Waferboard/oriented strandboard (OSB)[6]	5,091.6	741.1	(X)	(X)	(X)	(X)	(X)	141.4	(X)	(X)	(X)	(X)
	1988												
24351 --	Hardwood plywood[5]	1,111.2	802.2	103.8	22.2	9.3	2.8	3,185.2	624.6	4,192.6	1,404.6	76.0	44.5
24365 --	Softwood plywood[6]	22,191.0	3,512.9	1,004.4	227.8	4.5	6.5	90.0	32.4	21,276.6	3,317.5	0.4	1.0
24366 --													
24367 --													

Note: For comparison of Standard Industrial Classification-based product codes, Schedule B numbers, and 1989 HTSUSA and 1988 TSUSA numbers see tables 7A and 7B.

(X) Not applicable.

[1] Source: Bureau of the Census report EM 522, U.S. Exports.
[2] Source: Bureau of the Census report EM 145, U.S. Imports for Consumption.
[3] This dollar value represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.
[4] Apparent consumption represents new domestic supply and is derived by subtracting exports from the total of manufacturers' shipments.
[5] Quantities based on surface measure.
[6] Quantities based on 3/8" basis.

Table 7A. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION-BASED PRODUCT CODES WITH SCHEDULE B EXPORT NUMBERS AND HTSUSA IMPORT NUMBERS: 1989

Product code	Product description	Export numbers[1]	Import numbers[2]
24351 --	Hardwood plywood.....	4412.12.1000 4412.12.1500 4412.12.2042 4412.12.2044 4412.12.2046 4412.12.2080 4412.12.5000	4412.12.1020 4412.12.1040 4412.12.1060 4412.12.1510 4412.12.1520 4412.12.2030 4412.12.2040 4412.12.2042 4412.12.2044 4412.12.2046 4412.12.2050 4412.12.2060 4412.12.2070 4412.12.5000
24365 24366 24367	Softwood plywood.....	4412.19.1000 4412.19.3000 4412.19.4010 4412.19.4030 4412.19.4080 4412.19.5010 4412.19.5030 4412.19.5050	4412.19.1000 4412.19.3000 4412.19.4010 4412.19.4030 4412.19.4050 4412.19.4060 4412.19.5010 4412.19.5030 4412.19.5050
24932 --	Waferboard/oriented strandboard (OSB).....	(NA)	4410.10.0040

(NA) Not available.

[1]Source: 1989 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.
[2]Source: Harmonized Tariff Schedule of the United States, Annotated (1989).

Table 7B. COMPARISON OF SIC-BASED CODES (DOMESTIC OUTPUT), SCHEDULE B EXPORT NUMBERS, AND TSUSA IMPORT NUMBERS: 1988

Product code	Product description	Export numbers[1]	Import numbers[2]
24351 --	Hardwood plywood.....	240.1120, 240.1140, 240.1160	240.1420, 240.1440, 240.1460, 240.1900, 240.2320, 240.2340, 240.2360, 240.1720, 240.1740, 240.1760, 240.1000, 240.2520
24365 -- 24366 -- 24367 --	Softwood plywood.....	240.2020, 240.2040	240.1200, 240.1600, 240.2100, 240.2540

[1]Source: Bureau of the Census report, EM 546, U.S. Exports (1988).
[2]Source: Bureau of the Census report, IM 245, U.S. Imports for Consumption (1988).

DESCRIPTION OF SURVEY

Scope of Survey. This survey covers manufacturers of plywood, waferboard and oriented-strand board (OSB). Establishments producing prefinished hardwood plywood, whether from plywood produced at the manufacturing establishment, from purchased domestic or imported hardwood plywood, or from plywood owned by others, also are included on this survey. Plants producing softwood veneer only are excluded.

Survey Methodology. The statistics in this publication were collected by mail on Bureau of the Census annual Form MA24F, Plywood, Waferboard, and Oriented-Strand Board. The survey panel includes all known producers of hardwood and softwood plywood, waferboard and oriented-strand board (OSB), approximately 114 establishments are included.

Reliability of Data. Survey error may result from several sources: (1) inability to obtain information about all cases in the survey; (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which fail logic edits. Missing figures are imputed based on yearly movements shown by reporting firms. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 15 percent should be used with caution.

Revisions to Previous Period Data. Statistics for previous years may be revised as the result of corrected data from respondents, late reports for which imputations were made as described above, or other corrections. Figures which have been revised by 5 percent or more from previously published figures are indicated by footnotes.

Adjustment for Price Change. All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Quantity and Value of Shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable sales to unaffiliated customers; i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Consumption.

Logs. Represent total quantity of logs consumed to make veneer for hardwood plywood. Both hardwood and softwood logs are included, but softwood logs consumed to produce softwood veneer are excluded.

Veneer. Represents total quantity of all purchased veneer and all veneer transferred from other plants of the same company consumed to manufacture hardwood plywood.

Production. Represents total quantity of each type and/or species of hardwood and softwood plywood, waferboard and oriented strand board (OSB) produced, whether sold, transferred or added to inventory, regardless of ownership of materials used.

Hardwood Plywood. Plywood having at least three wood plies with a face of hardwood veneer. The back ply or inner plies may be any combination of hardwood or softwood veneer, lumber, particleboard, or hardboard.

Plywood Types

Technical Type and Type I, Waterproof. The bond must withstand full weather exposure and should be unaffected by micro-organisms.

Type II, Moisture Resistant. The bond should retain practically all of its strength when occasionally subjected to a thorough wetting and drying.

Type III, Dry Bond. The bond is suitable for use only where it will not be subjected to water, dampness, or high humidity.

Prefinished Hardwood Plywood. Hardwood plywood panels face finished on one or both surfaces by printing, sanding, grooving, embossing, scoring, striating, or by the addition of fillers, sealers, waxes, oils, stains, varnishes, paints, enamels, and/or similar materials. Prefinished hardwood plywood also includes panels that have been overlaid or laminated with nonwood materials including vinyl. Luan prefinished by any of the above processes is included.

Board Core Plywood. Hardwood plywood made with a core of lumber, hardwood, particle board, medium density fiberboard, oriented-strand board, or waferboard.

Veneer Core Plywood. Hardwood plywood made with an inner core or layers composed of wood veneer as opposed to lumber, hardboard or particleboard.

Softwood Plywood. Plywood having three or more wood plies with a face of softwood veneer. The back ply or inner plies may be any combination of hardwood or softwood veneer, lumber, particleboard, or hardboard. The types and grades conform with Product Standard PS1-83, Construction and Industrial Plywood. Prefinished softwood plywood made from purchased softwood plywood is excluded.

Interior Type. Plywood not intended for permanent exterior. The types which follow are listed in increasing order of durability:

Bonded with interior glue. Plywood with this glue bond is intended for interior application.

Bonded with Intermediate Glue. Plywood with this glue bond is intended for protected construction and industrial uses where moderate delays in providing protection may be expected or conditions of high humidity and water leakage may exist.

Bonded with Exterior (Waterproof) Glue. Plywood with this glue bond is intended for protected construction and industrial uses where protection against moisture exposure due to long construction delays or other conditions of similar severity is required.

Exterior Type. Plywood which will retain its glue bond when repeatedly wetted and dried or otherwise subjected to the weather and is therefore intended for permanent exterior exposure.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The trade comparisons shown in this report should be considered only as approximations. Several problems prevent precise comparisons among imports, exports, and domestic output. These problems include the following:

- Export and import comparisons do not account for the origin of materials used to manufacture the finished product. Domestic output includes any goods that undergo substantial transformation into a finished product in the U.S., even if the goods are partially constructed abroad or are constructed of imported materials.
- There will be a lag between the time a producer makes or ships a product and the time it is actually exported. Similarly, there may be a lag between the time a product is imported and when it enters into U.S. distribution channels.
- The basic structure of these classification systems differ. The Standard Industrial Classification (SIC) system used for domestic output was developed independently of the Harmonized System (HS) used to classify imports and exports. The level of detail provided by the different systems varies substantially, reflecting their different objectives. For example, there are a number of imported commodities that have no comparable domestic output classification.
- Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of domestic output data for such commodities may contain some duplication.
- Import and export data reflect the movement of merchandise into and out of U.S. foreign trade zones, the U.S. Virgin Islands, and the U.S. customs territory of the 50 States, the District of Columbia, and Puerto Rico. Domestic output reflects activity in the 50 States and, only if specified, in Puerto Rico.
- Import and export data generally do not distinguish between new, used or rebuilt commodities.
- The valuation of the three data sets differ. Domestic output is valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, and excludes freight charges and excise taxes. Exports are valued at the point of exportation. It includes the net sales price or value, and inland freight, insurance and other charges to the export point. Imports are valued at the first port of entry in the United States. They include the cost, insurance, freight, duty, and other charges to the import point.
- Detailed commodity information is not included for individual export or import shipments at or below a certain dollar limit. This dollar limit is $1,500 for exports and $1,000 for imports, except for import of textiles and textile products, gloves, footwear, and miscellaneous rubber and plastics products, where the limit is $250.

SURVEY CHANGES

Beginning in 1989, series MA24H entitled "Softwood Plywood" has been discontinued. Information on softwood plywood is now collected and published on series

U.S. Department of Commerce
BUREAU OF THE CENSUS
Washington, D.C. 20233

Official Business
Penalty for Private Use, $300

FIRST-CLASS MAIL
POSTAGE & FEES PAID
CENSUS
PERMIT No. G–58

MA-24F, previously entitled "Hardwood Plywood." Starting in 1989, the title for series MA24F has been changed to "Plywood, Waferboard and Oriented-Strand Board (OSB).

HISTORICAL NOTE

Data on hardwood and softwood plywood have been collected by the Bureau of the Census since 1951 and 1947, respectively. Waferboard and Oriental Strandboard (OSB) data were collected for the first time in 1989. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library. A list of depository libraries may be obtained from the Bureau of the Census regional offices cited below:

Office	Telephone
Atlanta, Georgia	(404) 347-2271
Boston, Massachusetts	(617) 565-7100
Charlotte, North Carolina	(704) 371-6142
Chicago, Illinois	(312) 353-6251
Dallas, Texas	(214) 767-0621
Denver, Colorado	(303) 286-2200
Detroit, Michigan	(313) 226-7742
Kansas City, Kansas	(816) 236-3728
Los Angeles, California	(213) 209-6616
New York, New York	(212) 264-3860
Philadelphia, Pennsylvania	(215) 597-4920
Seattle, Washington	(206) 442-7800

Historical data are also available on microfiche. For further information contact the Bureau of the Census, Data User Services Division, (301) 763-4100.

RELATED REPORTS

The Bureau of the Census publishes the following related reports:

Series	Frequency	Title
Current Industrial Reports		
MA24T	Annually	*Lumber Production and Mill Stocks*
MA26A	Annually	*Pulp, Paper, and Board*
Other Industrial Reports		
M3-1	Monthly	*Manufacturers' Shipments, Inventories, and Orders*
(AS)	Annually	Annual Survey of Manufactures (ASM)
(MC)	Quinquennially	Census of Manufactures
Foreign Trade Reports		
EM 545 FT 446	Monthly Annually	*U.S. Exports—Schedule B—Commodity by Country*
IM 145 FT 246	Monthly Annually	*U.S. Imports for Consumption—HTSUSA—Commodity by Country*

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone Number
Current Industrial Report MA24F	Gisela Hoffman	(301) 763-7807
Classification Systems Comparability	Francis McCormick (ESD)	(301) 763-1935
Foreign Trade	Trade Data Inquiries Staff (FTD)	(301) 763-5140
Census/ASM	Michael Zampogna	(301) 763-2510
International Trade Administration	Mitchell Auerbach	(202) 377-0375
To order a Current Industrial Report	Superintendent of Documents (GPO)	(202) 783-3238
To subscribe to a Census Bureau publication	Superintendent ofDocuments (GPO)	(202) 275-3054

ACKNOWLEDGMENTS

This report was prepared in the Industry Division, Bureau of the Census, under the direction of Thomas Flood, Chief, Current Nondurables Branch, and Nathaniel Shelton, Chief, Wood and Paper Products Section. Gisela B. Hoffman was directly responsible for the review of the data and preparation of the report. Gaylord Worden, Chief of the Division, and Robert N. Tinari, Assistant Chief for Current Industrial Reports, provided overall direction and coordination to this project.